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APPLICATION NO.	FILING DATE	DATE FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/763,958 02/28/2001		Atsushi Shinoda	0670-255	3463
31780 75	90 10/01/2004		EXAMINER	
ERIC ROBINSON			KUMAR, PANKAJ	
PMB 955 21010 SOUTHBANK ST. POTOMAC FALLS, VA 20165			ART UNIT	PAPER NUMBER
			2631	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicatio	n No.	Applicant(s)			
		09/763,958	3	SHINODA ET AL.			
Office Action Summary		Examiner		Art Unit			
		Pankaj Ku		2631			
Period fo	The MAILING DATE of this communication app or Reply	ears on the	cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)🖂	Responsive to communication(s) filed on <u>28 February 2001</u> .						
	This action is FINAL . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
5)⊠ 6)⊠ 7)□	Claim(s) 1-8 and 10 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) 7,8 and 10 is/are allowed. Claim(s) 1-6 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 2/28/2001, paper 5.		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1 recites the limitation "the carrier frequency" in lines 25-26. There is insufficient antecedent basis for this limitation in the claim.
- 4. Claim 4 recites the limitation "said correlation" as the last two words. There is insufficient antecedent basis for this limitation in the claim.
- 5. Claims 2, 3, 5, 6 are dependent on the above rejected claims.

Allowable Subject Matter

- 6. Claims 1-6 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 7. Claims 7-8, 10 are allowed.
- 8. The following is a statement of reasons for the indication of allowable subject matter:

 The art of record does not suggest the respective claim combinations together and nor would the respective claim combinations be obvious with the underlined portions:

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9. As per claims 1-6, <u>characterized in that a phase rotation of a predetermined angular velocity (alpha) which is larger than a maximum expected alienation frequency of said oscillator with respect to the carrier frequency to said phase detecting signal so that on the phase detecting signal to which said phase rotation is given, the auto-correlation function output taken over said predetermined period is created.</u>

10. As per claims 7, 8, 10: characterized by a phase rotation circuit (8) for causing said signal point arrangement signal to phase-rotate by a predetermined angular velocity (alpha) which is larger than a maximum expected alienation frequency of said oscillator with respect to a carrier frequency

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pankaj Kumar whose telephone number is (571) 272-3011. The examiner can normally be reached on Mon, Tues, Wed and Thurs after 8AM to after 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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